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SEP 15 2004

Application No. 09/283,585
Docket No. 742114-10

In the Specification:

Please amend the paragraph spanning pages 3 & 4 as follows:

Consequently, it is possible for a listener to distinguish between the different sounds of the generated output signal, as the audio signals generated according to the invention are ideally free of any perception of echo or significant distortion. This possibility of eliminating the echo perception for a listener makes the invention a unique and essential part of any analysis tool for supporting signal analyzing based on subjective recorded and processed audio signals. Using this invention, the physician will not be able to distinguish ~~distinct~~ between a 'real' auscultation signal and a processed auscultation signal, as the processed signal will be perceived as a 'real' signal.

Please amend the paragraph at lines 5-7 as follows:

When the input signal is divided into signal segments at its ~~in~~ zero crossings, excessive high-frequency components are avoided which otherwise can ruin the sound quality.